

**3R - 212**

# **REPORTS**

**DATE:**

**2001**

**Certified Mail: #7001 1940 0003 1553 8513**

February 28, 2002

**RECEIVED**

**MAR 04 2002**

Mr. William C. Olson  
New Mexico Oil Conservation Division  
1220 St. Francis Dr.  
Santa Fe, NM 87504

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2001 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

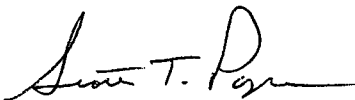
In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 30 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 30 reports (Volumes IA, IB, II and III), reports by land type. Volume IA and IB contain annual reports for sites found on Federal land. Volume II contains Non Federal sites and Volume III contains sites on Navajo land. Of the 30 reports submitted EPFS is requesting closure of three sites located on Navajo lands. Of the three Navajo sites submitted for closure OCD has closed the Charley Pah #4 and the John Charles #8. The Rementa et al #1 has not been closed by either agency. EPFS understands closure of groundwater sites on Navajo land falls under jurisdiction of the Navajo Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this report and will be submitted by the required deadline of April 1, 2002.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,



Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7001 1940 0003 1553 8506**  
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7001 1940 0003 1553 8520**

# **SAN JUAN BASIN PIT CLOSURES**

**San Juan Basin, New Mexico**

**El Paso Field Services  
Pit Project Groundwater Sites  
Annual Report  
Volume IB-Federal Sites**

**RECEIVED**

**MAR 04 2002**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**March 2002**

**Prepared for**

**El Paso Field Services  
Farmington, New Mexico**



**MWH**

MONTGOMERY WATSON HARZA

# EL PASO FIELD SERVICES ANNUAL GROUNDWATER REPORT

## FEDERAL SITES VOLUME IB

### TABLE OF CONTENTS

#### Site Map

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
97213	Hamner #9	29N	09W	20	A
72890	Ohio C Government #3	28N	11W	26	P
LD169	D Loop Line Drip	28N	08W	33	I
LD174	LAT LD 40	28N	04W	13	H
89894	Hammond #41A	27N	08W	25	O
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	E
87640	Canada Mesa #2	24N	06W	24	I



**MWH**

MONTGOMERY WATSON HARZA



## EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT

LAT L-40

Meter Code LD174

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### **SITE DETAILS**

Legals      Twn: 28N      Rng: 04W      Sec: 13      UNIT: H  
NMOCD Haz Ranking 20      Land Type: Federal      Operator: EPFS

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### **PREVIOUS ACTIVITIES**

Site Assessment: Feb-95    Excavation    Mar-95    Soil Boring: Sep-95    Monitor Well: Sep-95  
Geoprobe: NA    Additional MWs: \*\*\*    Downgradient MW's: NA    Replace MW: NA  
PSH Removal Initiated: Jan-98    ORC Nutrient Injection    NA    Re-Excavation: NA  
Quarterly Initiated    NA    Annual Initiated    NA    Quarterly Resumed: NA

### **2001 ACTIVITY**

Phase Separated Hydrocarbons (PSH) Removal - PSH removal from MW-1 continued through 2001.

Specific Gravity - A Specific Gravity sample was taken September 12, 2001 and the results were, 0.733 g/cc

\*\*\* Attempted July 2000, encountered refusal.

### **SUMMARY TABLES AND GRAPHS**

Groundwater levels and product removal are presented in Product Removal Table. Included is a BTEX Data graph for MW-1 and Free Product Recovery graph for MW-1.

### **SITE MAP**

Site Maps with BTEX concentrations and groundwater elevations are attached.

### **GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS**

No drilling activities were done at this site in 2001.

### **DISPOSITION OF GENERATED WASTES**

All PSH removed was disposed of at the Kutz Separator in Bloomfield, New Mexico.

# **EPFS GROUNDWATER PITS 2001 ANNUAL GROUNDWATER REPORT**

LAT L-40

Meter Code: LD174

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## **ISOCONCENTRATION MAPS**

No isoconcentration maps were generated for this site.

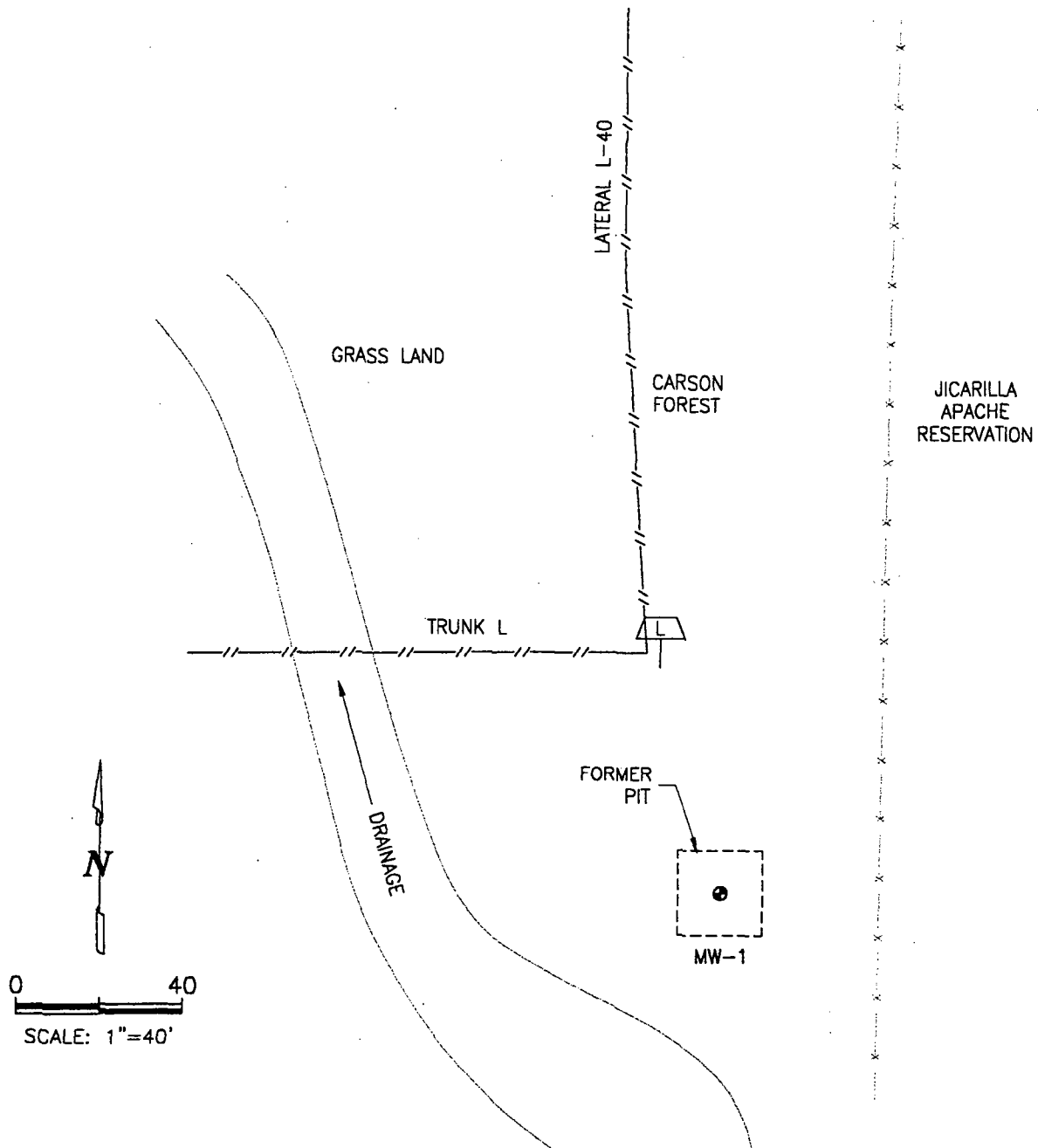
## **CONCLUSIONS**

A total of 6.8 gallons of phase separated hydrocarbons were removed from MW-1 during 2001. A cumulative of 21.98 gallons of phase separated hydrocarbons have been recovered since the inception of product recovery at this site.

Installation of additional borings and wells was attempted in 2000 and has consistently met with refusal. No new attempts to install additional wells were made in 2001.

## **RECOMMENDATIONS**

- > Continue product recovery in MW-1 as needed, then sample annually.
- > Continue annual monitoring in MW-1, until groundwater constituents are near New Mexico groundwater standards, then sample quarterly for closure.
- > Following OCD approval of closure, monitoring wells will be abandoned per OCD guidelines.



### LEGEND

- MW-1      Approximate Monitoring Well location and Number
- x — x —      Fence Line
- // — // —      Pipe Line

LATERAL L-40 LINE DRIP  
LD 174

PROJECT NO.:

GROUNDWATER SITES  
EL PASO FIELD SERVICES

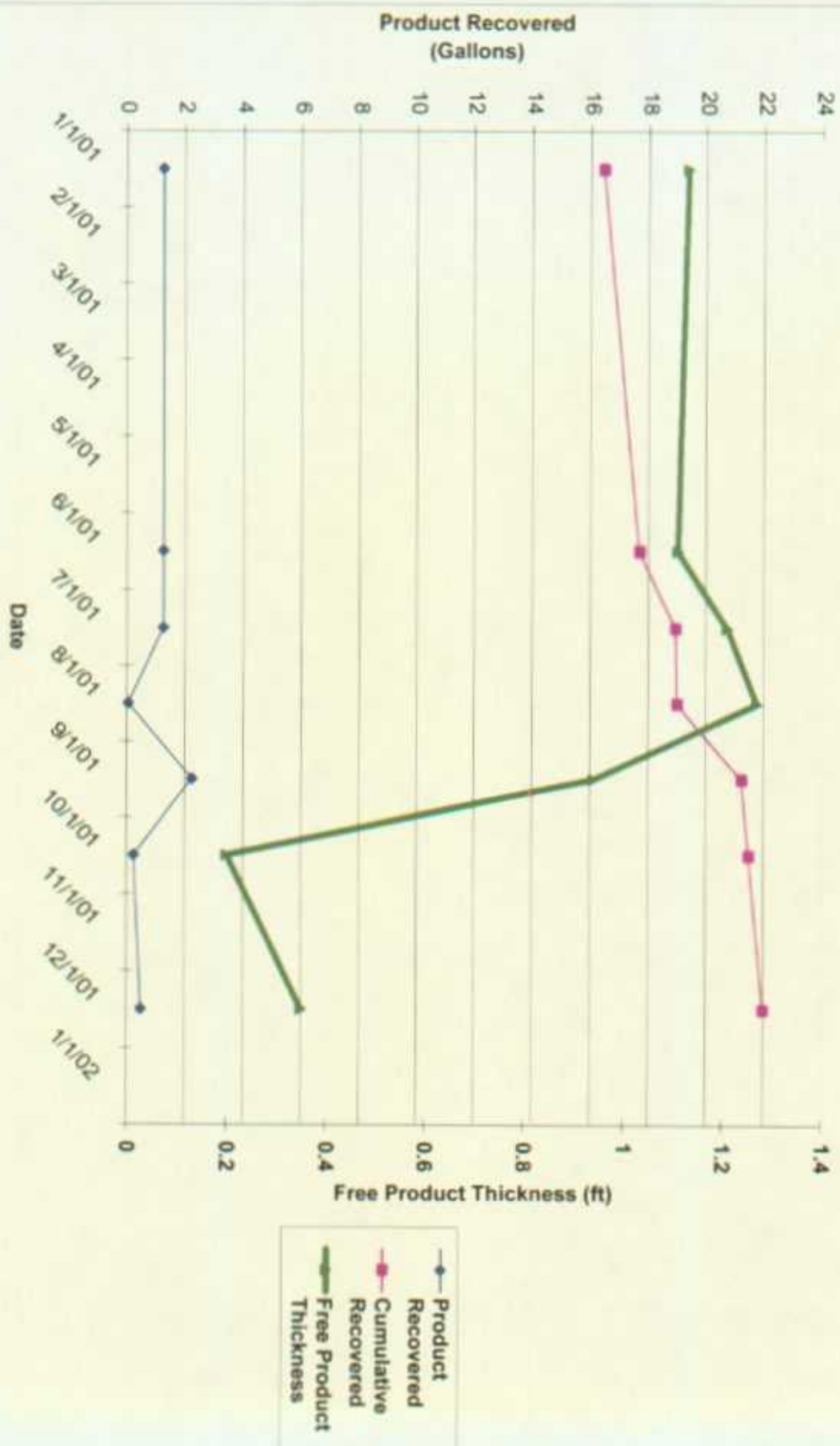
FIGURE 1



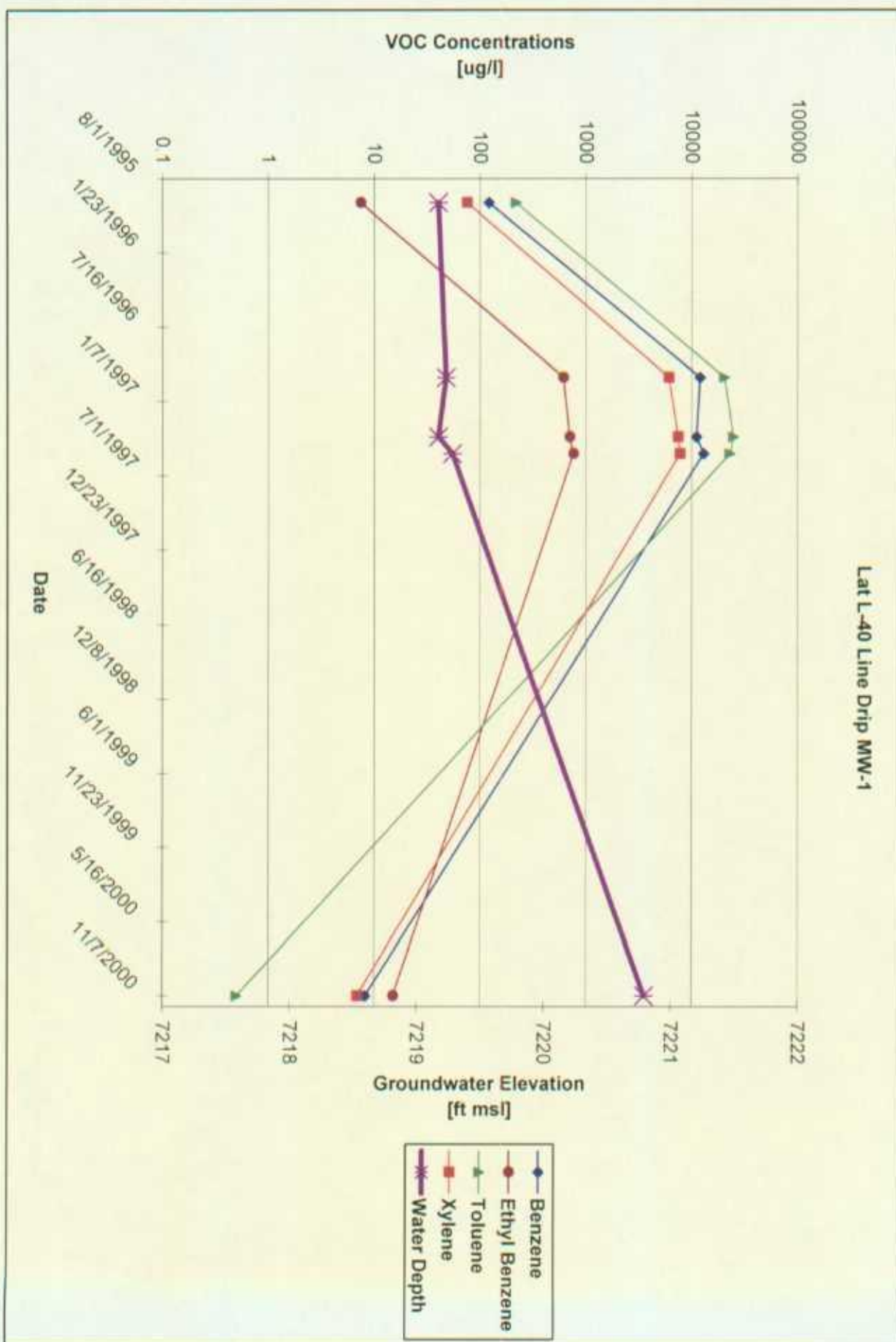
# **Product Removal Table** **Lat L-40**

Meter Line	Site Name	MW#	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Volume Removed (Gallons)	Cumulative Total (Gallons)
LD174	LAT LD 40	1	1/2/2001	37.95	39.08	1.13	1.25	16.43
LD174	LAT LD 40	1	6/8/2001	37.89	39	1.11	1.25	17.68
LD174	LAT LD 40	1	7/2/2001	37.93	39.14	1.21	1.25	18.93
LD174	LAT LD 40	1	8/3/2001	37.83	39.1	1.27	0.05	18.98
LD174	LAT LD 40	1	9/12/2001	38.02	38.96	0.94	2.25	21.23
LD174	LAT LD 40	1	10/12/2001	38.19	38.43	0.2	0.25	21.48
LD174	LAT LD 40	1	12/13/2001	38.40	38.75	0.35	0.5	21.98

# Free Product Recovery Lat L-40 MW-1



Lat L-40 Line Drip MW-1



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# **ATTACHMENT 1**

## **2001 GROUNDWATER ANALYTICAL**

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**amec**

Project No.: 2000-24

**Task:** \_\_\_\_\_

Date: 12-18-2011

Site Name: ATLAS (LD174)

Reason Not Measured: D = Dry; O = Obstructed; N = Not Accessible

Comments: No water release

Signature: \_\_\_\_\_ Date: 12-13-01

Date: 12-13-61.



Site Name LAT LHO (LD 174)

Signature Ch. J. May Date 11-18-01

Date 9-12-01

Date 8-3-01



Date 7-2-01

Date \_\_\_\_\_

## Product Recovery

Meter/Line #:	LD 174
Location/Line Name:	LAT. 40 L.D.
Date:	01-02-01
MW:	01
Depth to Product:	37.95
Depth to Water:	39.08
Product Thickness:	1.13
Volume Removed:	1.25

Comments:

no water Recovered



Date: 9/11/01  
Client: Golden Environmental Management  
Lab ID: 0301W03833 - 3843  
Project: G169

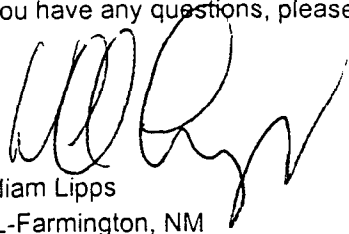
Dear Client:

The samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Sample analyses were obtained within the method specific holding times. Practical Quantitation Limits (PQL's) are based on method requirements, and any dilutions necessary to maintain proper method response without matrix interference.

If you have any questions, please call me at (505) 326-4737.

  
William Lipps  
IML-Farmington, NM

## Analytical Report

**Client:** Golden Environmental Management  
**Project:** G169  
**IML Set:** 0301W03833

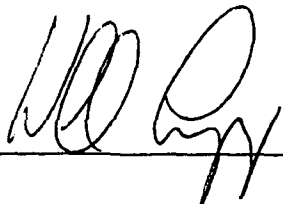
Page 1 of 1

**Date Received:** 09/06/01

**Date Reported:** 09/11/01

Lab Id	Sample Id	Date Sampled	Specific Gravity g/cc
0301W03833	LIN-0109-MW1	09/04/01	0.811
0301W03834	CAN-0109-MW1	09/04/01	0.736
0301W03835	GAL-0109-MW1	09/04/01	0.833
0301W03836	JFB-0109-MW3	09/04/01	0.773
0301W03837	072-0109-MW2	09/04/01	0.751
0301W03838	MIL-0109-MW1	09/04/01	0.754

Reviewed By:



## Analytical Report

Client: Golden Environmental Management  
Project: G169  
IML Set: 0301W03839

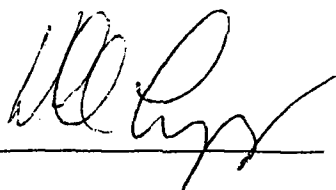
Page 1 of 1

Date Received: 09/06/01

Date Reported: 09/11/01

Lab Id	Sample Id	Date Sampled	Specific Gravity g/cc
0301W03839	JOH-0109-MW1	09/05/01	0.750
0301W03839D	JOH-0109-MW1	09/05/01	0.751
0301W03840	JON-0109-MW1	09/05/01	0.757
0301W03841	KNI-0109-MW1	09/05/01	0.790
0301W03842	STA-0109-MW3	09/05/01	0.741
0301W03843	JEN-0109-MW1	09/05/01	0.761

Reviewed By:



*Pinnacle Laboratories Inc.*

# CHAIN OF CUSTODY

DATE: 9-6-01 PAGE: 1 OF 2

PLI Accession #:

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PLEASE FILL THIS FORM IN COMPLETELY.

<b>PROJECT MANAGER:</b> LISA WILSON		<b>COMPANY:</b> GOLDEN ENVIRONMENTAL MGMT. <b>ADDRESS:</b> 706 S. JAMES BLVD. SUITE D FARMINGTON NM. 87401 <b>PHONE:</b> (505) 366-9114 <b>FAX:</b> (505) 366-7120 <b>BILL TO:</b> SCOTT POPE <b>COMPANY:</b> Eppas Field Services <b>ADDRESS:</b> 604 RALLY AVE FARMINGTON NM. 87401		<b>SAMPLE ID</b> <b>DATE</b> <b>TIME</b> <b>MATRIX</b> <b>LAB I.D.</b>		<b>ANALYSIS REQUEST</b>	
JOH-0109-MW 1	7-5-01	0700	Lg. HC			Petroleum Hydrocarbons (418.1) TRPH	
JOH-0109-MW 1	7-5-01	1000	Lg. HC			(MOD.8015) Diesel/Direct Inject	
KNE-0109-MW 1	7-5-01	1100	Lg. HC			(M8015) Gas/Purge & Trap	
STA-0109-MW 3	7-5-01	1200	Lg. HC			8021 (BTEX)/8015 (Gasoline) MTBE	
JEN-0109-MW 1	7-5-01	1300	Lg. HC			8021 (BTEX) □ MTBE □ TMB □ PCE	
						8021 (TCL)	
						8021 (EDX)	
						8021 (HALO)	
						8021 (CUST)	
						504.1 EDB □ /DBCP □	
						8260 (TCL) Volatile Organics	
						8260 (Full) Volatile Organics	
						8260 (CUST) Volatile Organics	
						8260 (Landfill) Volatile Organics	
						Pesticides /PCB (608/8081/8082)	
						Herbicides (615/8151)	
						Base/Neutral/Acid Compounds GC/MS (625/8270)	
						Polynuclear Aromatics (610/8310/8270-SIMS)	
						General Chemistry:	
						Priority Pollutant Metals (13)	
						Target Analyte List Metals (23)	
						RCRA Metals (8)	
						RCRA Metals by TCLP (Method 1311)	
						Metal:	







Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2505 West Main Street, Farmington, NM 87401

Date: 9/18/01  
Client: Golden Environmental Management  
Lab ID: 0301W03917  
Project: G169

Dear Client:

The sample was received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Unless otherwise noted, sample analyses were obtained within the method specific holding times.

If you have any questions, please call me at (505) 326-4737.

William Lipps  
IML-Farmington, NM

Client: Golden Environmental Management  
Project: G169  
Sample ID: 174-0109-MW1  
Lab ID: 0301W03917  
Matrix: Water  
Condition: N/A

Date Received: 09/12/01  
Date Reported: 09/18/01  
Date Sampled: 09/12/01  
Time Sampled: 1200

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
Specific Gravity	0.733	g/cc		0.001	SM 2710F	09/14/01	1400	ZW

Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By: 

# CHAIN OF CUSTODY

PLI Accession #:

DATE: 6-7-2021 PAGE: 1 OF 1

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[illegible]

ANALYSIS REQUEST		REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY:		RELINQUISHED BY:	
		(NORMAL)		1.		1.	
				Signature:		Signature:	
				Time:		Time:	
				Printed Name:		Printed Name:	
				Date:		Date:	
				Company:		Company:	
				See reverse side (Force Majeure)			
				RECEIVED BY:		RECEIVED BY: (LAB)	
				Signature:		Signature:	
				Time:		Time:	
				Printed Name:		Printed Name:	
				Date:		Date:	
				Company:		Company:	
Petroleum Hydrocarbons (418.1) TRPH							
(MOD.8015) Diesel/Direct Inject							
(M8015) Gas/Purge & Trap							
8021 (BTEX)/8015 (Gasoline) MTBE							
8021 (BTEX) <input type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE							
8021 (TCL)							
8021 (EDX)							
8021 (HALO)							
8021 (CUST)							
504.1 EDB <input type="checkbox"/> /DBCP <input type="checkbox"/>							
8260 (TCL) Volatile Organics							
8260 (Full) Volatile Organics							
8260 (CUST) Volatile Organics							
8260 (Landfill) Volatile Organics							
Pesticides /PCB (608/8081/8082)							
Herbicides (615/8151)							
Base/Neutral/Acid Compounds GC/MS (625/8270)							
Polynuclear Aromatics (610/8310/8270-SIMS)							
General Chemistry:							
Priority Pollutant Metals (13)							
Target Analyte List Metals (23)							
RCRA Metals (8)							
RCRA Metals by TCLP (Method 1311)							
Metals							

11/10/98 P.L.I. Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413 • E-mail: PIN\_LAB@WORLDNET.ATT.NET

**DISTRIBUTION:** White - PLI, Canary - O



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Date: 9/18/01  
Client: Golden Environmental Management  
Lab ID: 0301W03917  
Project: G169

Dear Client:

The sample was received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Comment:

Analytical results were obtained by approved methods. Unless otherwise noted, sample analyses were obtained within the method specific holding times.

If you have any questions, please call me at (505) 326-4737.

A handwritten signature in black ink, appearing to read "William Lipps", is positioned above the printed name.

William Lipps  
IML-Farmington, NM

Client: Golden Environmental Management  
Project: G169  
Sample ID: 174-0109-MW1  
Lab ID: 0301W03917  
Matrix: Water  
Condition: N/A

Date Received: 09/12/01  
Date Reported: 09/18/01  
Date Sampled: 09/12/01  
Time Sampled: 1200

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
Specific Gravity	0.733	g/cc		0.001	SM 2710F	09/14/01	1400	ZW

Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By: 

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**PLEASE FILL THIS FORM IN COMPLETELY.**

PROJECT MANAGER: Lisa Winn		ANALYSIS REQUEST	
COMPANY: GEM		NUMBER OF CONTAINERS	
ADDRESS: 906 San Juan Blvd. Suite D		Metals:	
Farmington NM 87401		RCRA Metals by TCLP (Method 1311)	
PHONE: (505) 586-9116		RCRA Metals (8)	
FAX: (505) 566-9120		Target Analyte List Metals (23)	
BILL TO: SCOTT POPE		Priority Pollutant Metals (13)	
COMPANY: El Paso Field Services		General Chemistry:	
ADDRESS: Coy Reilly LLC		Polynuclear Aromatics (610/8310/8270-SIMS)	
Farmington NM 87401		Base/Neutral/Acid Compounds GC/MS (625/8270)	
SAMPLE ID		Herbicides (615/8151)	
174-0189-Mur-1	DATE	Pesticides/PCB (608/8081/8082)	
	TIME	8260 (Landfill) Volatile Organics	
	MATRIX	8260 (CUST) Volatile Organics	
	LAB ID	8260 (Full) Volatile Organics	
		8260 (TCL) Volatile Organics	
		504.1 EDB □ / DBCP □	
		8021 (CUST)	
		8021 (HALO)	
		8021 (EDX)	
		8021 (TCL)	
		8021 (BTEX) □ MTBE □ TMB □ PCE	
		8021 (BTEX)/8015 (Gasoline) MTBE	
		(M8015) Gas/Purge & Trap	
		(MOD 8015) Diesel/Direct Inject	
		Petroleum Hydrocarbons (418.1) TRPH	
PROJECT INFORMATION		RELINQUISHED BY: 1. Signature: [Signature] Time: 1500	
PROJ. NO.: 669		Signature: [Signature] Time: 1500	
PROJ. NAME: GFS Remediation Project		Printed Name: [Signature] Date: 9/12/01	
P.O. NO.:		Company: [Signature]	
SHIPPED VIA:		See reverse side (Force Majeure)	
SAMPLE RECEIPT		RECEIVED BY: 1. Signature: [Signature] Time: 15:23	
NO. CONTAINERS		Signature: [Signature] Time: 15:23	
CUSTODY SEALS		Printed Name: [Signature] Date: 9/12/01	
RECEIVED INTACT		Printed Name: [Signature] Date: 9/12/01	
BLUE ICE/ICE		Company: [Signature]	